

Amendments to the Specification:

The paragraph beginning at Page 1, lines 14-34, through to page 2, lines 1 to 12, to be amended as follows:

--Various methods, systems and apparatus relating to the present invention are disclosed in the following co-pending applications filed by the applicant or assignee of the present invention simultaneously with the present application: on June 30, 2000:

A |
09/609,139 NPA014US, 09/608,970NPA015US, 09/609,039NPA022US,
NPA023US 09/663,579NPA024US 09/663,599NPA025US
09/607,852NPA026US, NPA037US 09/607,656NPA038US,
09/609,132NPA041US, 09/663,701NPA047US 09/663,640NPA049US,
09/609,303NPA050US, 09/610,095NPA051US, 09/609,596NPA052US,
09/693,705NPA053US, 09/607,843NPA063US, 09/607,605NPA065US,
09/608,178NPA067US, 09/609,553NPA068US, 09/609,233NPA069US,
09/609,149NPA071US, 09/608,022NPA072US, 09/609,232NPB003US,
09/607,844NPB004US, 6,457,883NPB005US, 09/608,920NPP019US,
09/607,985PEC04US, 6,398,332PEC05US, 6,394,573PEC06US,
09/606,999PEC07US

The disclosures of these co-pending applications are incorporated herein by reference. Each application is temporarily identified by its docket number. This will be replaced by the corresponding USSN when available.

Various methods, systems and apparatus relating to the present invention are disclosed in the following co-pending applications filed by the applicant or assignee of the present invention on 23 May 2000:

09/575,197 (NPA001US), 09/575,195 (NPA002US), 09/575,159 (NPA004US),
09/575,132 (NPA005US), 09/575,123 (NPA006US), 09/575,148 (NPA007US),
09/575,130 (NPA008US), 09/575,165 (NPA009US), 09/575,153 (NPA010US),
09/575,118 (NPA012US), 09/575,131 (NPA016US), 09/575,116 (NPA017US),
09/575,144 (NPA018US), 09/575,139 (NPA019US), 09/575,186 (NPA020US),
09/575,185 (NPA021US), 09/575,191 (NPA030US), 09/575,145 (NPA035US),
09/575,192 (NPA048US), 09/575,181 (NPA075US), 09/575,193 (NPB001US),
09/575,156 (NPB002US), 09/575,183 (NPK002US), 09/575,160 (NPK003US),
09/575,150 (NPK004US), 09/575,169 (NPK005US), 09/575,184 (NPM001US),
6,502,614 (NPM002US), 6,622,999 (NPM003US), 09/575,149 (NPM004US),
6,549,935 (NPN001US), 09/575,187 (NPP001US), 09/575,155 (NPP003US),
6,591,884 (NPP005US), 6,439,706 (NPP006US), 09/575,196 (NPP007US),
09/575,198 (NPP008US), 09/575178 (NPP016US), 6,428,155 (NPP017US),
09/575,146 (NPP018US), 09/575,174 (NPS001US), 09/575,163 (NPS003US),
09/575,168 (NPS020US), 09/575,154 (NPT001US), 09/575,129 (NPT002US),
09/575,124 (NPT003US), 09/575,188 (NPT004US), 09/575,189 (NPX001US),
09/575,162 (NPX003US), 09/575,172 (NPX008US), 09/575,170 (NPX011US),

A1
09/575,171 (NPX014US), 09/575,161 (NPX016US), 6,428,133 (IJ52US),
6,527,365 (IJM52US), 6,315,399 (MJ10US), 6,338,548 (MJ11US),
6,540,319 (MJ12US), 6,328,431 (MJ13US), 6,328,425 (MJ14US),
09/575,127 (MJ15US), 6,383,833 (MJ34US), 6,464,332 (MJ47US),
6,390,591 (MJ58US), 09/575,152 (MJ62US), 6,328,417 (MJ63US),
6,409,323 (PAK04US), 6,281,912 (PAK05US), 6,604,810 (PAK06US),
6,318,920 (PAK07US), 6,488,422 (PAK08US), 09/575,108 (PEC01US),
09/575,109 (PEC02US), 09/575,110 (PEC03US)

The disclosures of these co-pending applications are incorporated herein by cross-reference.
Each application is temporarily identified by its docket number. This will be replaced by the corresponding USSN when available.

A2
The paragraph beginning at Page 12, lines 21-25 to be amended as follows:

Netpage publication servers 14, shown in Figure 3, on the netpage network are configured to deliver print-quality publications to netpage printers. Periodical publications are delivered automatically to subscribing netpage printers via pointcasting and multicasting Internet protocols. Personalized publications are filtered and formatted according to individual user profiles.

A3
The paragraph beginning at Page 19, line 28 to Page 20, line 1, to be amended as follows:

The ring target 15 is only sought in a subarea of the image whose relationship to the image guarantees that the ring, if found, is part of a complete tag. If a complete tag is not found and successfully decoded, then no pen position is recorded for the current frame. Given adequate processing power and ideally a non-minimal field of view 193, shown in Figure 6, an alternative strategy involves seeking another tag in the current image.

A4
The paragraph beginning at Page 22, lines 16-21, to be amended as follows:

A page instance consists of a set of terminal element instances 832. An element instance only exists if it records instance-specific information. Thus, a hyperlink instance exists for a hyperlink element because it records a transaction ID 55, shown in Figure 29, which is specific to the page instance, and a field instance exists for a field element because it records input specific to the page instance. An element instance does not exist, however, for static elements such as textflows.

The paragraph beginning at Page 24, lines 4-7, to be amended as follows:

A5

The netpage printer 601 is an appliance which is registered with the netpage system and prints netpage documents on demand and via subscription. Each printer has a unique printer ID 62, shown in Figure 22, and is connected to the netpage network via a network such as the Internet, ideally via a broadband connection.

A4

The paragraph beginning at Page 24, lines 24-26, to be amended as follows:

The printer rasterizes and prints odd and even pages simultaneously on both sides of the sheet. It contains duplexed print engine controllers 760, shown in Figure 16, and print engines utilizing Memjet™ printheads 350, shown in Figure 12a, for this purpose.

A7

The paragraph beginning at Page 24, line 27 to-Page 25, line 2, to be amended as follows:

The printing process consists of two decoupled stages: rasterization of page descriptions, and expansion and printing of page images. The raster image processor (RIP) consists of one or more standard DSPs 757, shown in Figure 14, running in parallel. The duplexed print engine controllers consist of custom processors which expand, dither and print page images in real time, synchronized with the operation of the printheads in the print engines.

A8

A preferred embodiment of the netpage printer is described in greater detail in Section 67 below, with reference to Figures 11 to 16.

A9

The paragraph beginning at Page 26, lines 18-21, to be amended as follows:

Major elements of the printing element 300 are the nozzle 302, the nozzle rim 303, the nozzle chamber 304, the fluidic seal 305, the ink channel rim 306, the lever arm 307, the active actuator beam pair 308, the passive actuator beam pair 309, the active actuator anchor 310, the passive actuator anchor 311, and the ink inlet 312. These elements are shown in Figure 19.

The paragraph beginning at Page 28, lines 6-14, to be amended as follows:

A10

Referring to Figure 9, the active sensing device of the netpage system is typically a pen 101, which, using its embedded controller 134 is able to capture and decode IR position tags from a page via an image sensor. The image sensor is a solid-state device provided with an appropriate filter to permit sensing at only near-infrared wavelengths. As described in more detail below, the system is able to sense when the nib is in contact with the surface, and the pen is able to sense tags at a sufficient rate to capture human handwriting (i.e. at 200 dpi or greater and 100 Hz or faster). Information captured by the pen is encrypted and wirelessly transmitted to the printer (or base station), the printer or base station interpreting the data with respect to the (known) page structure.

The paragraph beginning at Page 31, lines 12-17, to be amended as follows:

A11

A hyperlink element 844 identifies the application 71, shown in Figure 40, which handles activation of the hyperlink, a link ID 54 which identifies the hyperlink to the application, an “alias required” flag which asks the system to include the user’s application alias ID 65, shown in Figure 40, in the hyperlink activation, and a description which is used when the hyperlink is recorded as a favorite or appears in the user’s history. The hyperlink element class diagram is shown in Figure 29.

The paragraph beginning at Page 32, lines 3-7, to be amended as follows:

A12

The system includes the pen’s current selection 826 in a selection hyperlink activation. The system includes the content of the associated form instance 868, shown in Figure 32, in a form hyperlink activation, although if the hyperlink has its “submit delta” attribute set, only input since the last form submission is included. The system includes an effective return path in all hyperlink activations.

The paragraph beginning at Page 38, line 28 to Page 39, line 5, to be amended as follows:

A13

In a preferred embodiment, the netpage printer has a single button labelled “Help”. When pressed it elicits a single help page 46, shown in Figure 46, of information, including:

- status of printer connection

- A13
- status of printer consumables
 - top-level help menu
 - document function menu
 - top-level netpage network directory
-

The paragraph beginning at Page 50, lines 9-13, to be amended as follows:

A14

The help page 46 may also contain an <authorize global user> button which, when activated, generates a page 562, shown in Figure 55, containing a list 578 of all users on the network, with an <authorize user> button next to each. The global user list is available to all users, but only contains users who have elected to appear (e.g. via the user registration form privacy options).

The paragraph beginning at Page 64, line 30, to Page 65, line 5, to be amended as follows:

A15

After a period of inactivity in the zone of the text field, the page server sends the pen ID and the pending strokes to the registration server 11 for interpretation. The registration server identifies the user corresponding to the pen, and uses the user's accumulated handwriting model 822, shown in Figure 21, to interpret the strokes as handwritten text. Once it has converted the strokes to text, the registration server returns the text to the requesting page server. The page server appends the text to the text value of the text field.

The paragraph beginning at Page 72, lines 13-15, to be amended as follows:

A16

Referring to Figure 15, the master print engine controller 760a controls the paper transport and monitors ink usage in conjunction with the master QA chip 665 and the ink cartridge QA chip 761.

Abstract to be amended as follows:

A17

A method and system for registration of a sensing device for use with a computer system. The method includes providing a printed registration form including registration information and coded data thereon, the coded data including an indication of an identity of

A 11

the form and at least one reference point on the form. The method also includes receiving in the computer system indicating data from a sensing device, the indicating data including information regarding an identity of the sensing device, the identity of the form and at least one action of the sensing device in relation to the form generated by the sensing device using at least some of the coded data. A correspondence is derived, from the indicating data, between a registered user of the computer system and the identity of the sensing device. Registration data associating an identity of the registered user with the identity of the sensing device is then stored in the computer system for later use.

(Figure 48)